

Pb Free

RoHs

DATA SHEET

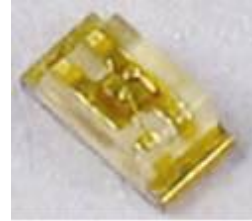
PART NO. : HH-0603RC-120

REV : A / 1

CUSTOMER'S APPROVAL : _____ DCC : _____

HH-0603RC-120

RED



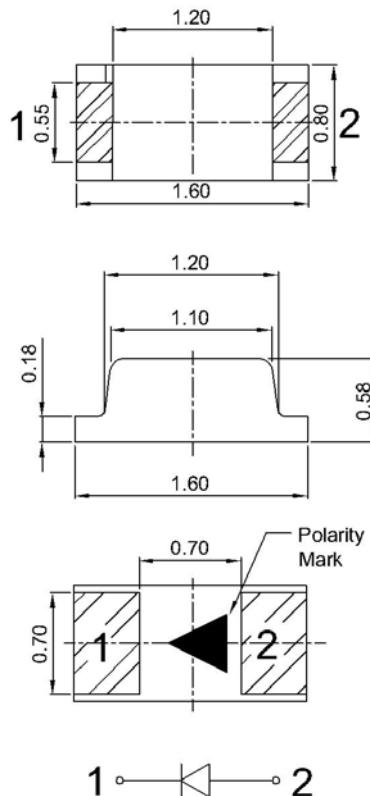
Features

- 1.6mmX0.8mm SMT LED, 0.58mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE: 4000PCS / REEL .

Description

This devices are made with TS GaP.

Package Dimensions



Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is ± 0.2 mm unless otherwise noted.
3. An epoxy meniscus may extend about 1.5mm down the leads.
4. Burr around bottom of epoxy may be 0.5mm max..

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	2θ1/2
HH-0603RC-120	RED (GaP)	WATER CLEAR		130	120

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Min.	Typ.	Units	Test Conditions
λD	Dominant Wavelength	Red	632	636	nm	IF=20mA
C	Capacitance	Red		15	pF	VF=0V;f=1MHz
VF	Forward Voltage	Red	1.6	2.0	V	IF=20mA
IR	Reverse Current	All	—	5	uA	VR= 5V

Absolute Maximum Ratings at TA=25°C

Parameter	Red	Units
Power dissipation	65	mW
DC Forward Current	30	mA
Peak Forward Current [1]	160	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	

Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

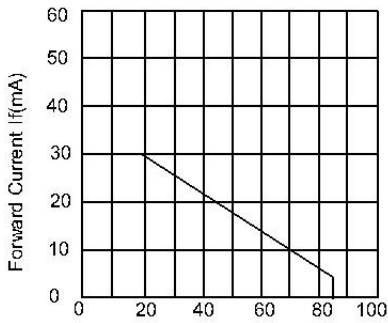
Red

HH-0603RC-120

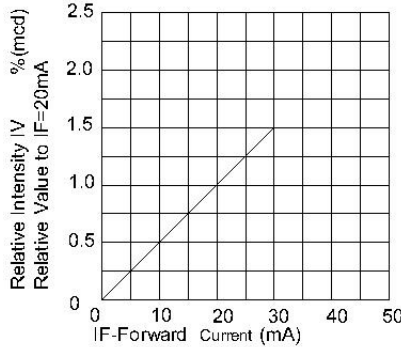
Reliability Test Items And Conditions

The reliability of products shall be satisfied with items listed below.
 Confidence level :90% LTPD :10%

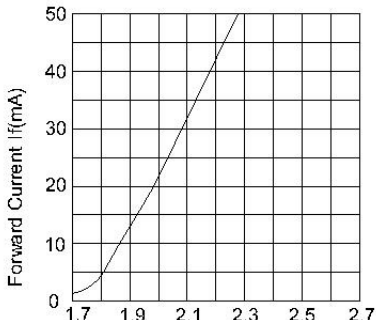
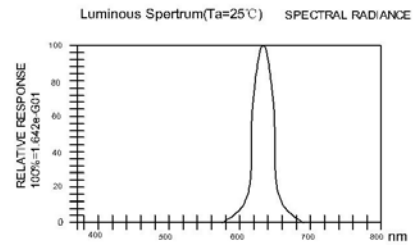
No.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Rc
1	Reflow	Temp:240°C±5°C Min.5 sec.	6 Min.	22Pcs.	0/1
2	Temperature Cycle	H:+100°C 15 min. ∞ 5 min L:-40°C 15 min.	300 Cycles	22Pcs.	0/1
3	Thermal Shock	H:+100°C 5 min. ∞ 10 sec. L:-10°C 5 min.	300 Cycles	22Pcs.	0/1
4	High Temperature Storage	Temp.:100°C	1000Hrs.	22Pcs.	0/1
5	Low Temperature Storage	Temp.: -55°C	1000Hrs.	22Pcs.	0/1
6	DC Operating Life	I _f =20mA	1000Hrs.	22Pcs.	0/1
7	High Temperature/High Humidity	85°C/R.H85%	1000Hrs.	22Pcs.	0/1



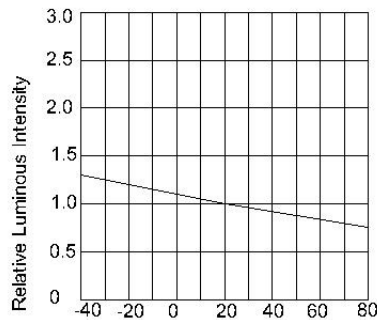
Ambient Temperature T A(°C)
 Forward current
 Derating Curve



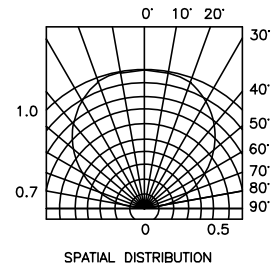
Luminous Intensity vs.
 Forward Current



Forward Voltage (V)
 Forward Current VS.
 Forward Voltage



Ambient Temperature Ta(°C)
 Luminous Intensity
 Ambient Temperature

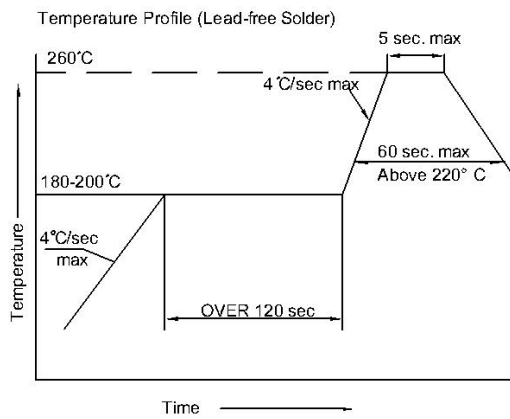
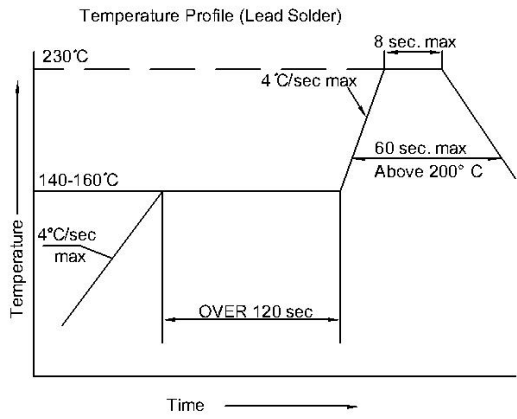


RED

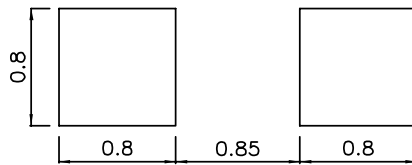
HH-0603RC-120

SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



**Recommended Soldering Pattern
(Units : mm)**



**Tape Specifications
(Units : mm)**

